MECKLENBURG COUNTY
Code Enforcement

RESIDENTIAL PLAN SUBMITTAL

Small Project Requirements

Residential Plan Submittal

Small Project Requirements

The information contained within this packet is to assist you in the preparation of the plans and specifications for your project. The plan documents must provide sufficient information to enable Code Enforcement staff to determine how your project will be constructed, and to ensure your design is compliant with the NC State Residential Code.

The permitting and plan submittal process is now done electronically. Details of this process and the information required within the project plans can be found on the Residential Plan Review Services web page.

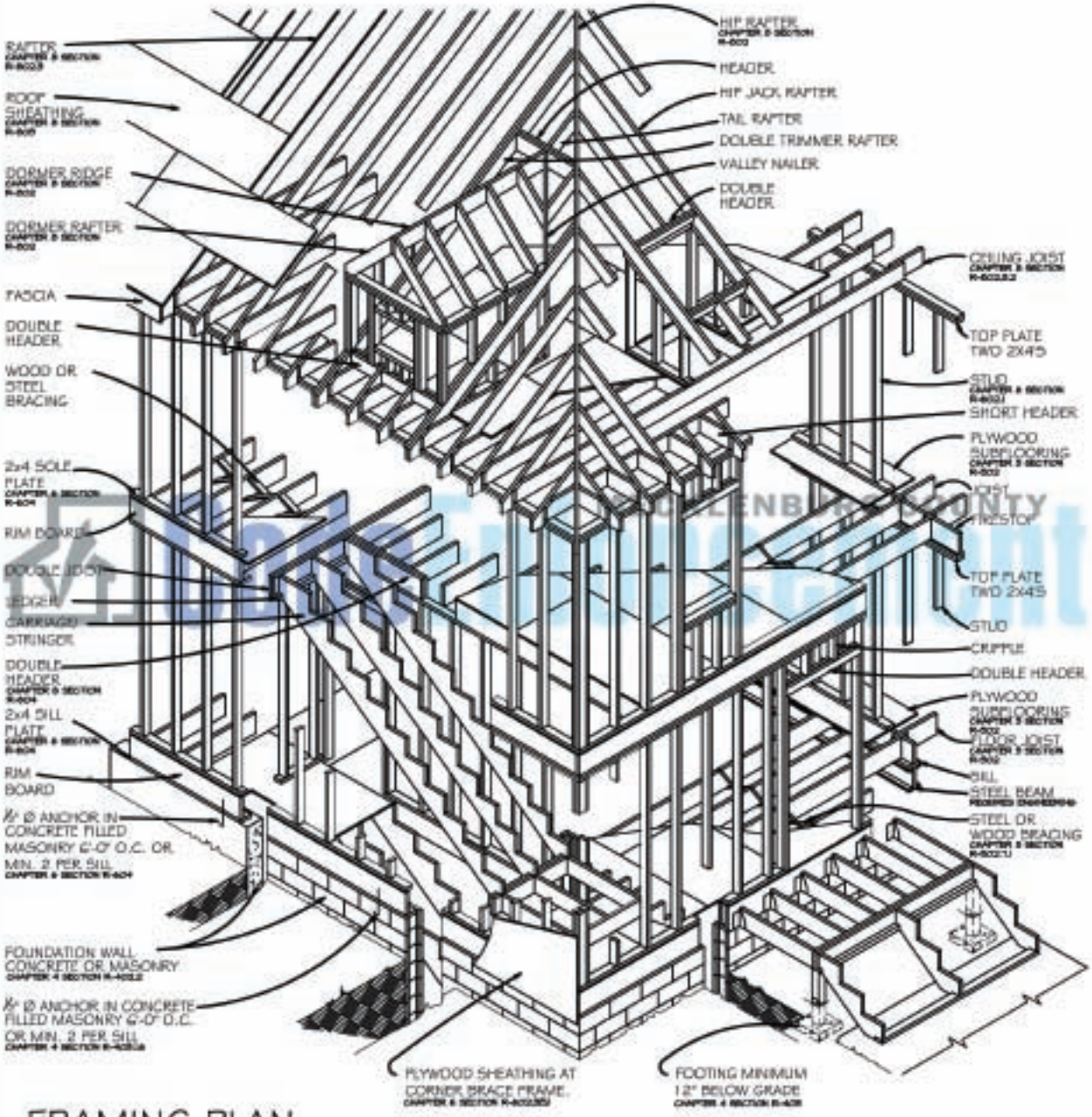
The illustrations on the following pages are an example of the required content and format for project plans. These illustrations are consistent with the North Carolina State Building Code, but are not complete as additional project specific information would need to be placed in the blanks before it would illustrate a Code compliant project. Building components must be designed and sized to meet the requirements of the North Carolina State Building Code specific to your project. If you have difficulty drafting and designing your project you may want to consult with a licensed general contractor or a design professional.

You may find additional assistance drafting and designing your project plans by visiting the following websites:
www.homeplanpro.com
www.homedesignersoftware.com.
Mecklenburg County does not recommend or endorse any of these software programs.

One of the most important things to understand when designing the structural components of your project is "load path." Load path is a commonly used term to describe the direction or directions a load or series of loads which transfer through the structural components of a residence to bearing on soil.

Loads are imposed onto a structure several ways i.e., dead loads (fixed and the weight of the structure itself) and live loads (moving components such as wind, snow, furniture and building occupants). The structural components of a building must be designed to transfer all loads imposed onto a structure to the ground. In other words, loads are "weight" that the structure must be able to withstand.

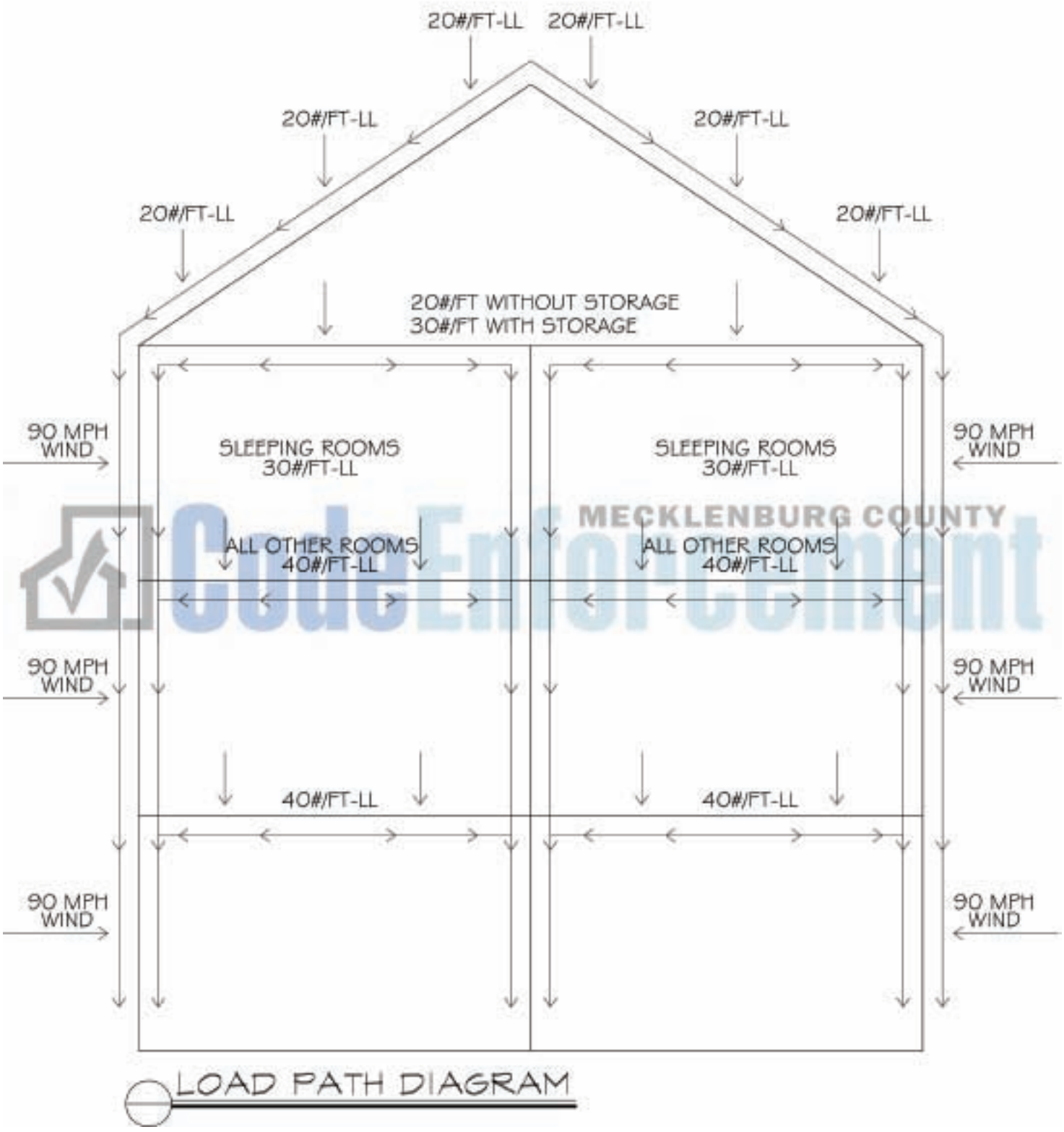
The path typically starts at the roof and/ or floor and travel through rafters, and ceiling/floor joist to the walls, foundation and footings. Sometimes the loads must travel through beams and girders much like a bridge to continue to wall or foundation components. Identifying load path is critical to performing plan review to ensure the structural components have been designed according to the parameters of the North Carolina State Building Code.



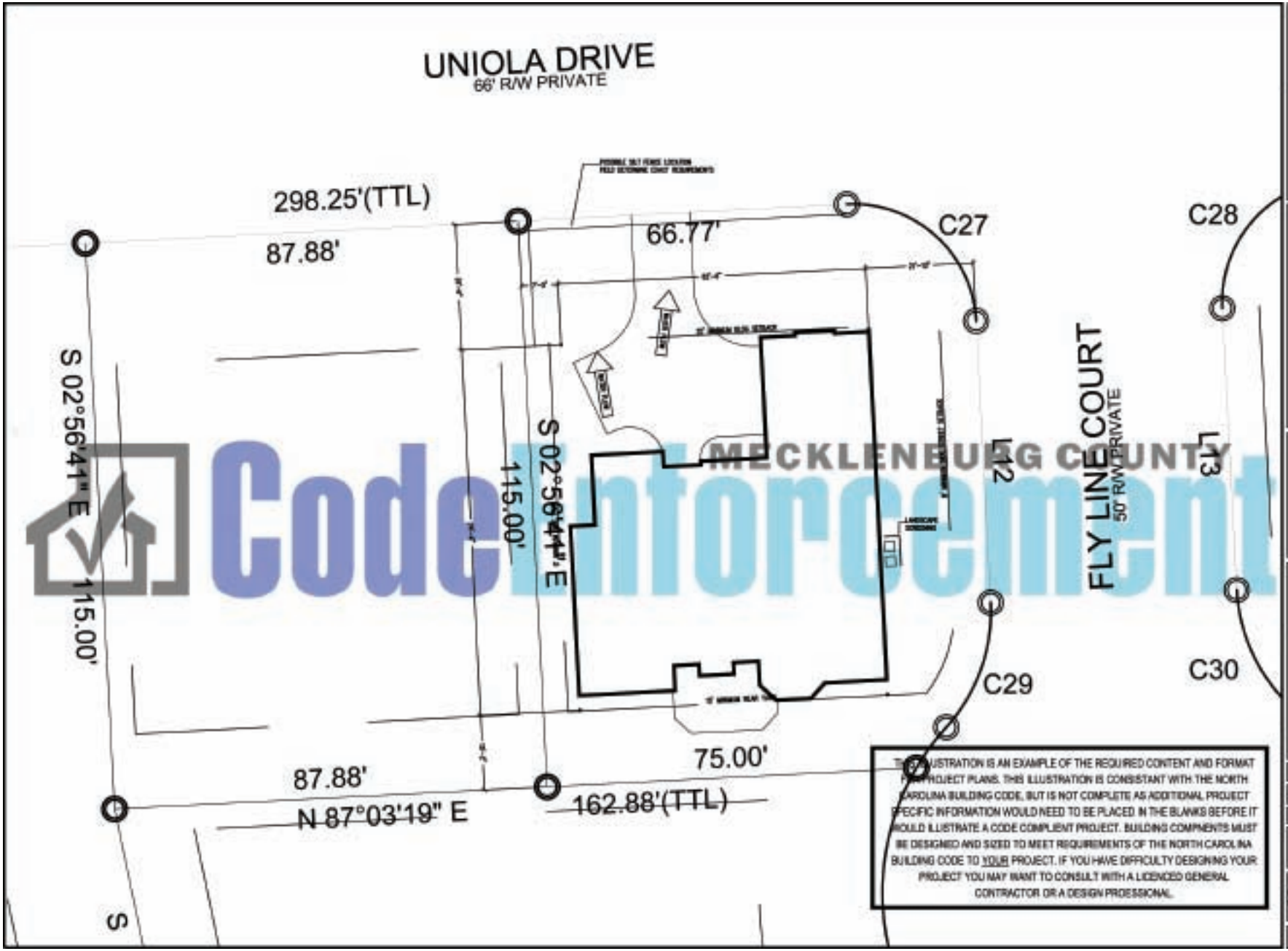
FRAMING PLAN

N.T.S.

THIS ILLUSTRATION IS AN EXAMPLE OF THE REQUIRED CONTENT AND FORMAT FOR PROJECT PLANS. THIS ILLUSTRATION IS CONSISTANT WITH THE NORTH CAROLINA BUILDING CODE, BUT IS NOT COMPLETE AS ADDITIONAL PROJECT SPECIFIC INFORMATION WOULD NEED TO BE PLACED IN THE BLANKS BEFORE IT WOULD ILLISTRATE A CODE COMPLIENT PROJECT. BUILDING COMPNENTS MUST BE DESIGNED AND SIZED TO MEET REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE TO <u>YOUR</u> PROJECT. IF YOU HAVE DIFFICULTY DESIGNING YOUR PROJECT YOU MAY WANT TO CONSULT WITH A LICENCED GENERAL CONTRACTOR OR A DESIGN PROESSIONAL.



LOAD PATH DIAGRAM


UNIOLA DRIVE
66' R/W PRIVATE
298.25'(TTL)
87.88'
66.77'
C27
C28
S 02°56'41" E
115.00'
S 02°56'41" E
115.00'
FLY LINE COURT
50' R/W PRIVATE
L12
L13
C29
C30
75.00'
87.88'
N 87°03'19" E
162.88'(TTL)
MECKLENBURG COUNTY
Code Enforcement
THIS ILLUSTRATION IS AN EXAMPLE OF THE REQUIRED CONTENT AND FORMAT FOR PROJECT PLANS. THIS ILLUSTRATION IS CONSISTANT WITH THE NORTH CAROLINA BUILDING CODE, BUT IS NOT COMPLETE AS ADDITIONAL PROJECT SPECIFIC INFORMATION WOULD NEED TO BE PLACED IN THE BLANKS BEFORE IT WOULD ILLUSTRATE A CODE COMPLIENT PROJECT. BUILDING COMPONENTS MUST BE DESIGNED AND SIZED TO MEET REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE TO YOUR PROJECT. IF YOU HAVE DIFFICULTY DESIGNING YOUR PROJECT YOU MAY WANT TO CONSULT WITH A LICENCED GENERAL CONTRACTOR OR A DESIGN PROFESSIONAL.
MECKLENBURG COUNTY
PLEASE SEE SHEET T-3 (SPECIFICATIONS) FOR ALL INFORMATION THAT IS REQUIRED ON THIS SHEET.
SCOPE OF WORK
1- REAR ADDITION
HOMEOWNER NAME
TOWN OF
MECKLENBURG COUNTY
FIRST FLOOR
SP-100
BUILDING DEPT

PROPOSED 2 STORY SINGLE FAMILY

MECKLENBURG SAMPLE

123 MAIN STREET
ANYWHERE USA 11224

TOWN OF ____________
MECKLENBURG COUNTY, NORTH CAROLINA

P R O J E C T   T I T L E / L O C A T I O N

OWNER: HOMEOWNERS NAME
BUILDING USER/TENANT: TENANTS NAME
PROJECT SQ. FOOTAGE: 1st FLOOR : EXISTING.00 SF; EXT. GARAGE : EXISTING.00 SF; 2nd FLOOR : EXISTING.00 SF
PROPOSED NEW SPACE: NEW.00 SF
CONST. CLASSIFICATION: NEW CONSTRUCTION
OCCUPANCY: ONE FAMILY DWELLING
FIRE HAZARD: LOW
FIRE SPRINKLER SYSTEM: N/A
PROJECT DESCRIPTION: SCOPE OF WORK

FRONT ELEVATION

DEMOLITION NOTES

GENERAL NOTES

PAGE #	PAGE INFORMATION
T-1	PROJECT INFORMATION
T-2	CODE ANALYSIS
T-2.1	CODE ANALYSIS
T-2.2	CODE ANALYSIS
T-2.3	CODE ANALYSIS
T-3	GENERAL NOTES
T-4	GENERAL NOTES
T-5	STAMPING DETAILS
A-1	SECTION & FOUNDATION PLAN
A-2	1st & 2nd FLOOR PLAN
A-3	ELEVATIONS

THIS ILLUSTRATION IS AN EXAMPLE OF THE REQUIRED CONTENT AND FORMAT FOR PROJECT PLANS. THIS ILLUSTRATION IS CONSISTANT WITH THE NORTH CAROLINA BUILDING CODE, BUT IS NOT COMPLETE AS ADDITIONAL PROJECT SPECIFIC INFORMATION WOULD NEED TO BE PLACED IN THE BLANKS BEFORE IT WOULD ILLUSTRATE A CODE COMPLIENT PROJECT. BUILDING COMPONENTS MUST BE DESIGNED AND SIZED TO MEET REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE TO YOUR PROJECT. IF YOU HAVE DIFFICULTY DESIGNING YOUR PROJECT YOU MAY WANT TO CONSULT WITH A LICENCED GENERAL CONTRACTOR OR A DESIGN PROFESSIONAL.

MATERIAL INDEX

SYMBOL INDEX

WOOD NOTES

ELECTRICAL NOTES

INDEX TO DRAWINGS

MECKLENBURG COUNTY

PLEASE SEE SHEET T-3 (SPECIFICATIONS) FOR ALL INFORMATION THAT IS REQUIRED ON THIS SHEET.

SCOPE OF WORK
E: REAR ADDITION

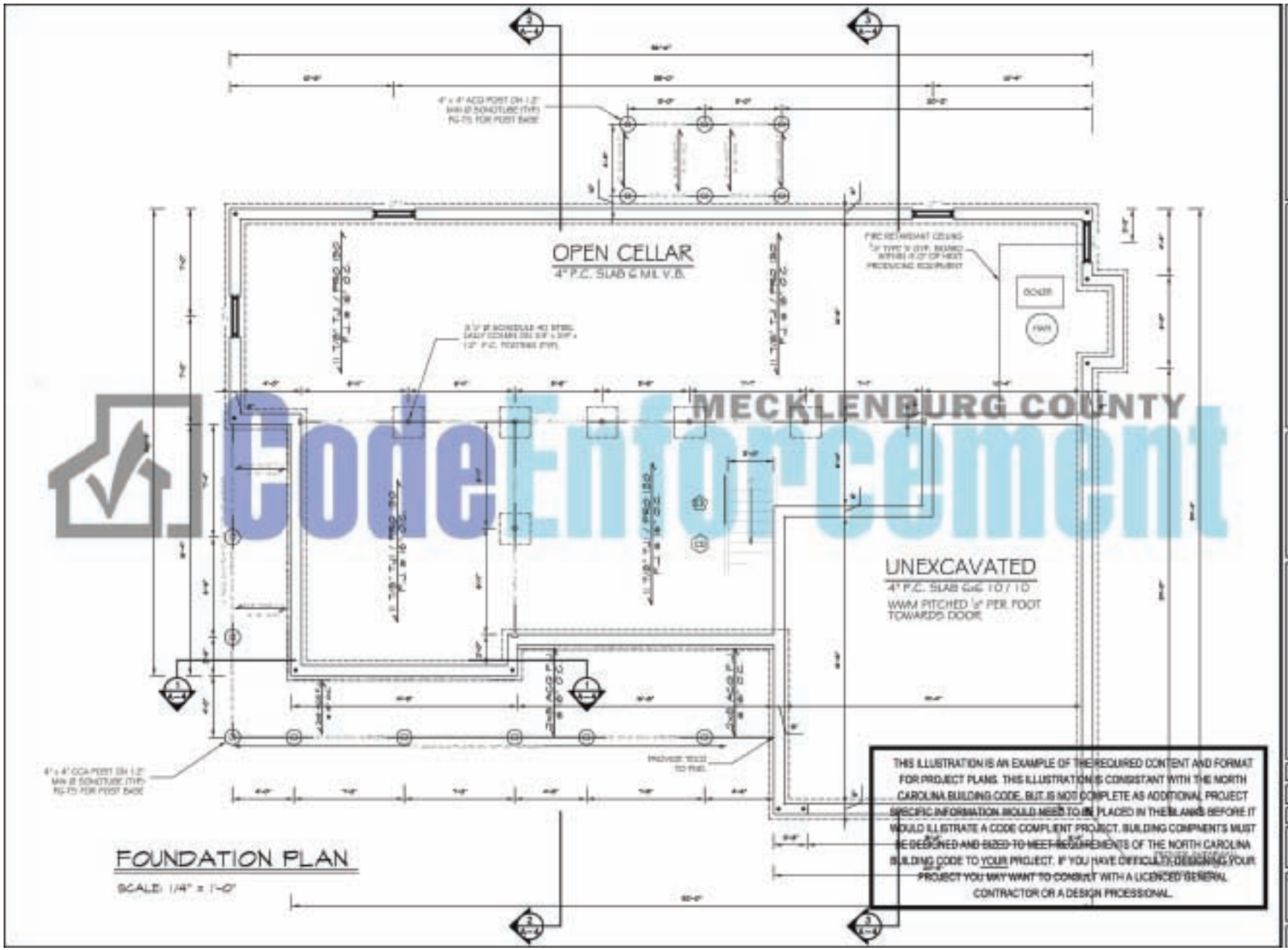
HOMEOWNER NAME

TOWN OF
MECKLENBURG COUNTY

GENERAL CODE NOTES

T-1

BUILDING DEPT



FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

MECKLENBURG COUNTY
Sample Address
Anywhere USA 12345
(704) 555-5555
DESIGNER/HOMEOWNER NAME

PLEASE SEE SHEET T-3 (SPECIFICATIONS) FOR ALL INFORMATION THAT IS REQUIRED ON THIS SHEET.

PROJECT:
SCOPE OF WORK:
R- REAR ADDITION

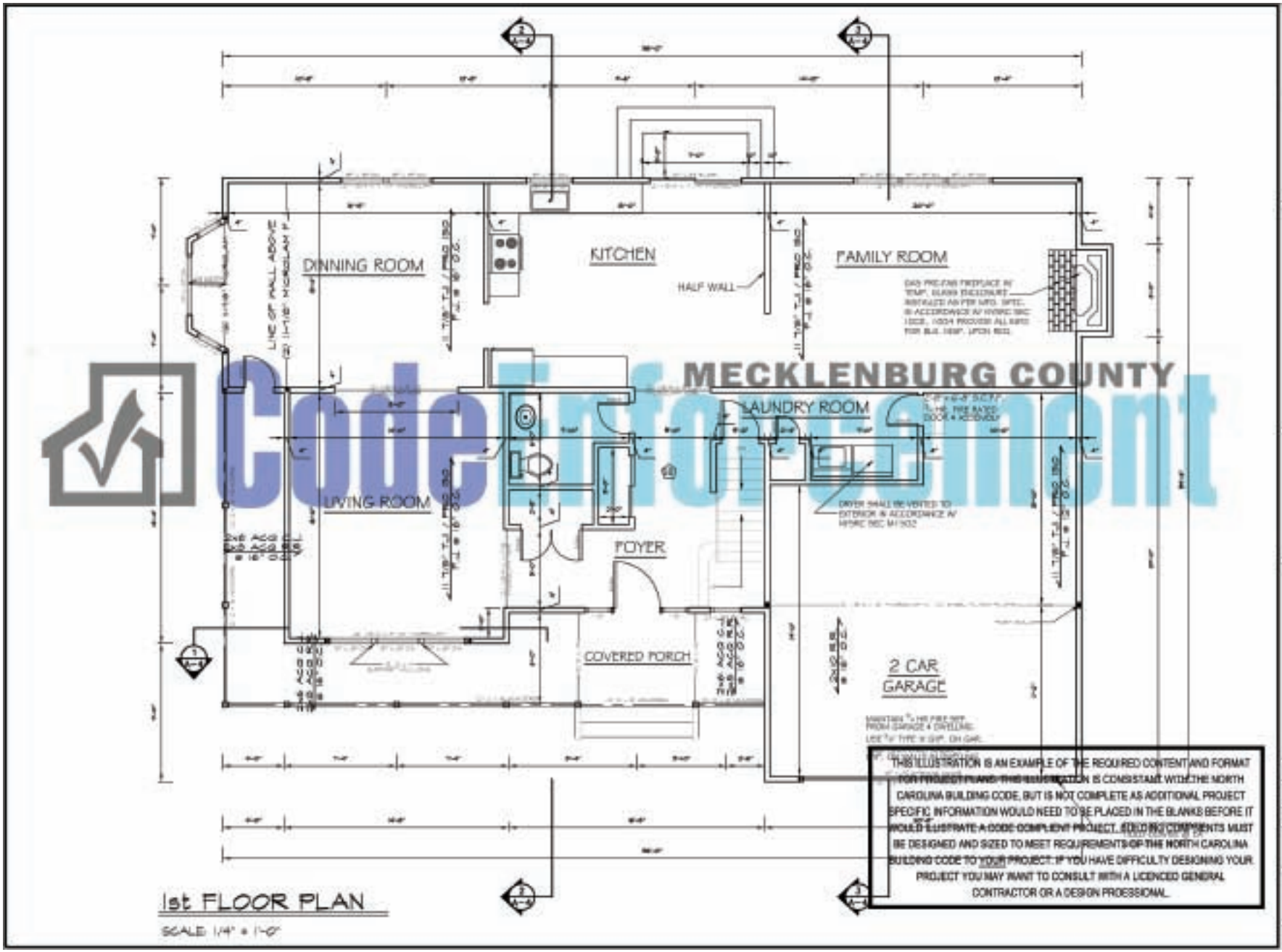
HOMEOWNER NAME

TOWN OF
MECKLENBURG COUNT

FOUNDATION PLAN

A- 001

BUILDING DEPT



1st FLOOR PLAN

SCALE: 1/4" = 1'-0"

MECKLENBURG COUNTY
Sample Address
Anywhere NC 12345
(704) 000-0000
DESIGNER/HOMEOWNER NAME

PLEASE SEE SHEET T-3 (SPECIFICATIONS) FOR ALL INFORMATION THAT IS REQUIRED ON THIS SHEET.

PROJECT
SCOPE OF WORK:
R- REAR ADDITION

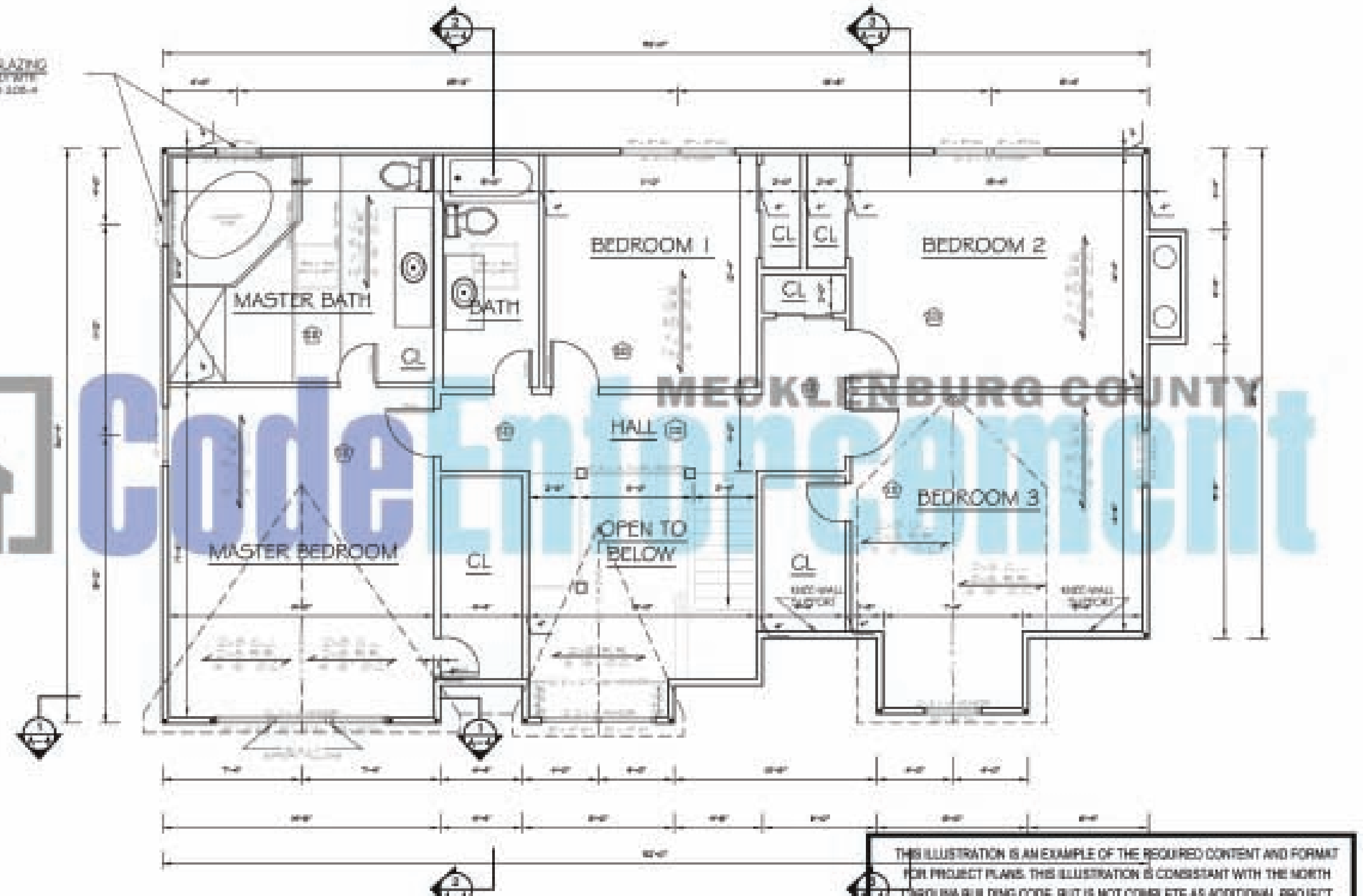
HOMEOWNER NAME

TOWN OF _____
MECKLENBURG COUNTY

FIRST FLOOR

A- 100

BUILDING DEPT



2nd FLOOR PLAN

SCALE: 1/4" = 1'-0"

THIS ILLUSTRATION IS AN EXAMPLE OF THE REQUIRED CONTENT AND FORMAT FOR PROJECT PLANS. THIS ILLUSTRATION IS CONSISTANT WITH THE NORTH CAROLINA BUILDING CODE, BUT IS NOT COMPLETE AS ADDITIONAL PROJECT SPECIFIC INFORMATION WOULD NEED TO BE PLACED IN THE BLANKS BEFORE IT WOULD ILLUSTRATE A CODE COMPLIENT PROJECT. BUILDING COMPNENTS MUST BE DESIGNED AND SIZED TO MEET REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE TO YOUR PROJECT. IF YOU HAVE DIFFICULTY DESIGNING YOUR PROJECT YOU MAY WANT TO CONSULT WITH A LICENCED GENERAL CONTRACTOR OR A DESIGN PROFESSIONAL.

MECKLENBURG COUNTY
Sample Address
Anywhere USA 12345

PLEASE SEE SHEET T-3 (SPECIFICATIONS) FOR ALL INFORMATION THAT IS REQUIRED ON THIS SHEET.

SCOPE OF WORK
E: REAR ADDITION

HOMEOWNER NAME

TOWN OF ________
MECKLENBURG COUNTY

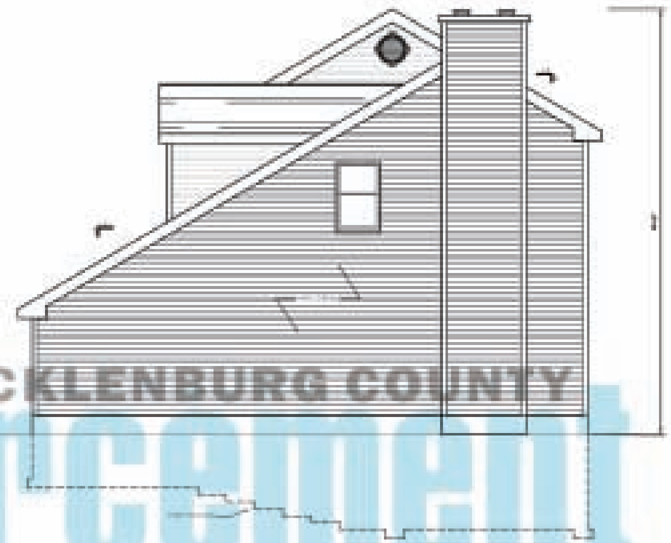
SECOND FLOOR

A- 200

BUILDING DEPT

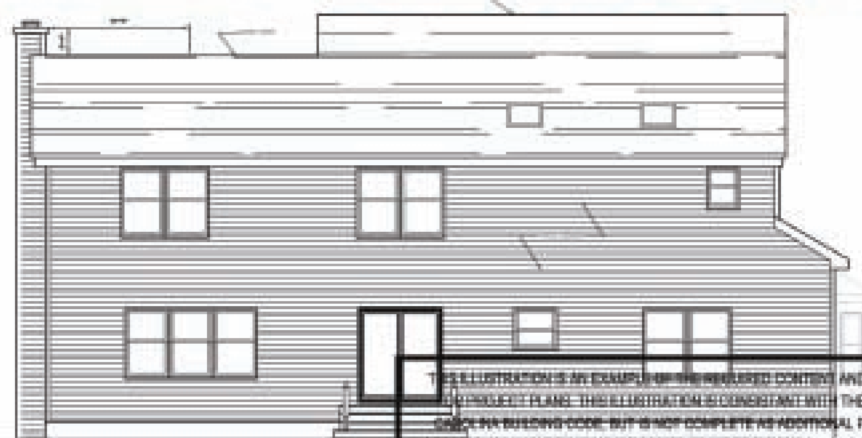
FRONT ELEVATION

SCALE: 1/4" = 1'-0"



LEFT SIDE ELEVATION

SCALE: 1/4" = 1'-0"



REAR ELEVATION

SCALE: 1/4" = 1'-0"

THIS ILLUSTRATION IS AN EXAMPLE OF THE REQUIRED CONTENT AND FORMAT FOR PROJECT PLANS. THIS ILLUSTRATION IS CONSISTENT WITH THE NORTH CAROLINA BUILDING CODE, BUT IS NOT COMPLETE AS ADDITIONAL PROJECT SPECIFIC INFORMATION WOULD NEED TO BE PLACED IN THE BLANKS BEFORE IT WOULD ILLUSTRATE A CODE COMPLIENT PROJECT. BUILDING COMPNENTS MUST BE DESIGNED AND SIZED TO MEET REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE TO YOUR PROJECT. IF YOU HAVE DIFFICULTY DESIGNING YOUR PROJECT YOU MAY WANT TO CONSULT WITH A LICENCED GENERAL CONTRACTOR OR A DESIGN PROFESSIONAL.

MECKLENBURG COUNTY
Sample Address
Anywhere USA 12345

PLEASE SEE SHEET T-3 (SPECIFICATIONS) FOR ALL INFORMATION THAT IS REQUIRED ON THIS SHEET.

SCOPE OF WORK
IE: REAR ADDITION

HOMEOWNER NAME

TOWN OF
MECKLENBURG COUNTY

ELEVATIONS

A- 300

BUILDING DEPT

[illegible]

ROOFING NOTES:

[illegible]

TABLE R905.2.8.2

VALLEY LINING MATERIAL			
	MINIMUM THICKNESS	HEIGHT	(pounds)
MATERIAL	(inches)	GAGE	
Copper	—	—	—
Aluminum	0.024	—	—
Stainless steel	—	28	
Galvanized steel	0.0179	26 (zinc coated G90)	
Zinc alloy	0.027	—	
Lead	—	—	2½
Painted terne	—	—	

For SI: 1 inch = 25.4 mm, 1 pound = 0.454 kg.

[illegible]

NAILING SCHEDULE

[illegible]

NAILING SCHEDULE

[illegible]

TABLE 301.4

MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS	
USE	LIVE LOAD
EXTERIOR BALCONIES	60
DECKS	40
PASSENGER VEHICLE GARAGES[a]	50[a]
ATTICS WITHOUT STORAGE[b,e]	10
ATTICS W/ STORAGE	20
ROOMS OTHER THAN SLEEPING ROOMS	40
SLEEPING ROOMS	30
STAIRS	40[c]
GUARDRAILS AND HANDRAILS[d]	200

For SI: 1 pound per square foot = 0.0479 kN/m2, 1 square inch = 645 mm2, 1 pound = 4.45 N.

a. Elevated garage floors shall be capable of supporting a 2,000-pound load applied over a 20-square-inch area.

b. No storage with roof slope not over 3 units in 12 units.

c. Individual stair treads shall be designed for the uniformly distributed live load or a 300-pound concentrated load acting over an area of 4 square inches, whichever produces the greater stresses.

d. A single concentrated load applied in any direction at any point along the top.

e. Attics constructed with wood trusses shall be designed in accordance with [illegible]

[illegible]

R301.6 Deflection. The allowable deflection of any structural member under the live load listed in [illegible] shall not exceed the values in Table [illegible]

TABLE 301.6

ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS	
STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
RAFTERS HAVING SLOPE GREATER THAN 3/12 W/ NO FIN. CEILING ATTACHED	L/180
INTERIOR WALLS AND PARTITIONS	H/180
FLOORS AND PLASTERED CEILINGS	L/360
ALL OTHER STRUCTURAL MEMBERS	L/240
EXTERIOR WALLS W/ PLASTER OR STUCCO FINISH	H/360
EXTERIOR WALLS-WIND LOADS - WITH BRITTLE FINISHES	L/240
EXTERIOR WALLS-WIND LOADS - WITH FLEXIBLE FINISHES	L/120

NOTE: L = span length, H = span height.

a. The wind load shall be permitted to be taken as 0.7 times the Component and Cladding loads for the purpose of [illegible]

THIS ILLUSTRATION IS AN EXAMPLE OF THE REQUIRED CONTENT AND FORMAT FOR PROJECT PLANS. THIS ILLUSTRATION IS CONSISTANT WITH THE NORTH CAROLINA BUILDING CODE, BUT IS NOT COMPLETE AS ADDITIONAL PROJECT SPECIFIC INFORMATION WOULD NEED TO BE PLACED IN THE BLANKS BEFORE IT WOULD ILLUSTRATE A CODE COMPLIANT PROJECT. BUILDING COMPONENTS MUST BE DESIGNED AND SIZED TO MEET REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE TO YOUR PROJECT. IF YOU HAVE DIFFICULTY DESIGNING YOUR PROJECT YOU MAY WANT TO CONSULT WITH A LICENCED GENERAL CONTRACTOR OR A DESIGN PROFESSIONAL.

MECKLENBURG COUNTY
Sample Address
Anywhere USA 12345
(704) 000-0000

PLEASE SEE SHEET T-3 (SPECIFICATIONS) FOR ALL INFORMATION THAT IS REQUIRED ON THIS SHEET.

PROJECT:
SCOPE OF WORK
IE: REAR ADDITION
HOMEOWNER NAME
TOWN OF MECKLENBURG COUNT

DRAWING TITLE: GENERAL CODE NOTES

T- 2

BUILDING DEPT

SPECIFICATIONS

OBTAINING A RESIDENTIAL BUILDING PERMIT.

WORKING DRAWINGS (OR BLUEPRINTS, PLANS, DRAWINGS AND PRINTS):

THE WORKING DRAWINGS ARE GRAPHICAL PICTURES OF THE STRUCTURE CUSTOMERS ARE PLANNING TO BUILD. TWO SETS ARE REQUIRED. THESE WORKING DRAWINGS ARE USED TO PROVIDE LUESA WITH INFORMATION ON HOW APPLICANTS PLAN TO CONSTRUCT A PROPOSED PROJECT. SINCE THE CONSTRUCTION OF MOST BUILDINGS IS WOOD FRAME, THE SAMPLE DRAWING USED, IS WOOD FRAME. IF APPLICANTS PLAN TO BUILD A LOG HOUSE, A POLE BUILDING OR A METAL, MASONRY OR CONCRETE STRUCTURE, CALCULATIONS AND PLANS STAMPED BY A LICENSED ENGINEER MAY BE REQUIRED. IF CUSTOMERS PLAN TO BUILD ON A STEEP SITE, PROPOSE TO BUILD HIGHER THAN TWO STORIES, OR PLAN TO USE UNCONVENTIONAL MATERIALS, PLEASE CONTACT DDES FOR A PRE-APPLICATION MEETING. THE MECKLENBURG COUNTY BUILDING OFFICIAL MAY REQUIRE ADDITIONAL DRAWINGS, DETAILS, SECTIONS, OR STAMPED ENGINEERED CALCULATIONS AND/OR DETAILS FOR ANY BUILDING OR SITE.

THE FOLLOWING DRAWINGS ARE REQUIRED:

ALL PLANS SHOULD BE A MINIMUM OF 18" x 24" OR 8½" x 11" FOR SMALL PROJECTS. TEXT SIZES FOR HAND-DRAWN PLANS ARE 1/8" AND 3/32" FOR CAD.

* FOUNDATION PLANS - (REQUIRED SCALE: 1/4" =1' - 0");
* FLOOR PLANS OF EACH FLOOR - (REQUIRED SCALE: 1/4" = 1' - 0");
- INDICATE SQUARE FOOTAGE OF CONDITIONED SPACE, GARAGES, CARPORTS, OUTBUILDINGS AND DECKS; AND
- DESIGNATE USE OF EACH ROOM OR SPACE. THE NUMBER OF BEDROOMS SHOULD EQUAL THOSE ON THE SEPTIC DESIGN APPROVED BY THE CHARLOTTE-MECKLENBURG COUNTY DEPARTMENT OF PUBLIC HEALTH.
* BUILDING CROSS SECTION(S) - USUALLY THROUGH THE MOST COMPLEX AREA(S) (REQUIRED SCALE 1/4" =1' -0");
* ELEVATIONS - (RECOMMENDED SCALE 1/8" =1' - 0") FOR ALL SIDES OF THE BUILDING;
* ROOF FRAMING PLANS - MAY BE INDICATED ON THE UPPERMOST FLOOR PLAN (REQUIRED SCALE 1/4" - 1' - 0");
* FLOOR FRAMING PLANS - MAY BE INDICATED ON A FLOOR OR FOUNDATION PLAN (REQUIRED SCALE 1/4" = 1' - 0");
* MISCELLANEOUS STRUCTURAL DETAILS - (RECOMMENDED SCALE 3/4" = 1' - 0"); AND
* TYPICAL WALL SECTION - (RECOMMENDED SCALE 1/2" = 1' - 0").

DRAWING SETS SHALL BE AS FOLLOWS:

* CLEAR AND WITH READABLE WRITING;
* STAPLED TOGETHER WITH PLOT PLAN AS THE FIRST SHEET;
* IN ORDER, WITH EACH PAGE NUMBERED CONSECUTIVELY;
* NO PENCIL DRAWINGS ; AND
* REPRODUCTIONS ON SUBSTANTIAL PAPER ARE REQUIRED.

ADDITIONAL INFORMATION WHICH MAY BE REQUIRED:

* ENERGY CODE COMPLIANCE: AS PER NCRC CHAPTER 11 INSULATION SHALL BE AS FOLLOWS: ROOF R-30, WALLS R-13, AND FLOORS R-19. ALL GLAZING TO BE LOW-E.
* FOR ADDITIONS, INCLUDE THE FLOOR PLANS OF EXISTING ADJACENT ROOMS. SHOW LOCATION OF WINDOWS AND THEIR SIZES AND HOW THEY OPERATE (HORIZONTAL SLIDER FOR EXAMPLE);
* ENGINEERING CALCULATION AND DETAILS FOR RETAINING WALLS OTHER THAN PER TABLE NCRC 2000 EDITION SEC. R-404.1.3.
* ENGINEERING CALCULATIONS AND DETAILS FOR BEAMS, JOISTS, TRUSSES, LATERAL LOADS (WIND AND/OR SEISMIC) AND SPECIAL CONNECTIONS.
* SITE INSPECTION BY THE ENGINEER/ARCHITECT OF RECORD MAY BE REQUIRED FOR SPECIAL DESIGNS;
* SNOW LOADS WILL BE COMPUTED USING MECKLENBURG COUNTY SNOW LOAD ANALYSIS BASED ON THE SNOW LOAD ANALYSIS FOR NORTH CAROLINA.

WORKING DRAWINGS SHALL EFFECTIVELY DESCRIBE OR SPECIFY THE FOLLOWING:

1. LINE OF STRUCTURE ABOVE - PARTICULARLY OVERHANGS AND CANTILEVERS, ROOFS, ETC;
2. CRAWL SPACE VENTS - CALL OUT TYPICAL SIZE AND QUANTITY;
3. CRAWL SPACE ACCESS - CALL OUT SIZE OF OPENING;
4. TYPE OF FOUNDATION - EXAMPLE: CONCRETE, WOOD OR MASONRY - CALL OUT SIZES;
5. FOOTINGS CONTINUOUS AND PADS - CALL OUT SIZES;
6. COLUMNS/POST - CALL OUT MEMBER SIZE;
7. BEARING WALL - CALL OUT FOR CLARITY;
8. FRAMING (FLOOR, ROOF, DECK) - SHOW DIRECTION OF LAYOUT, SIZE, SPECIES, GRADE AND SPACING (EXAMPLE: ROOF RAFTERS 2 X 10 S.Y.P. #2 @ 16" O.C.);
9. BEAMS & HEADERS - CALL OUT SIZE, SPECIES AND GRADE. EXAMPLE: HDR (2)2 X 8 S.Y.P. #2.
10. GROUND-COVER - 6 MIL. POLYETHYLENE OR EQUIVALENT;
11. CONNECTORS - BEAM TO BEAM, POST TO BEAM, TRUSS TO BEAM, HANGERS; CALL OUT SIZE. PROVIDE DETAIL AND ENGINEERING FOR CUSTOM FABRICATED CONNECTORS;
12. MISCELLANEOUS STRUCTURAL COMPONENTS - SHOW DOUBLED JOIST, BLOCKING, ETC.;
13. SPACES (ROOMS) - LABEL AREAS; (EXAMPLE: CRAWL SPACE, CLOSET, BEDROOM, DECK, ETC.);
14. STAIRS - SHOW DIRECTION OF TRAVEL (UP OR DOWN). REFER TO NCRC SEC. R-311.5
15. TOILET FIXTURES;
16. MECHANICAL VENTILATION;
17. DOORS - SHOW SWING; IF POCKET DOOR, SHOW POCKET AREA. CALL OUT SIZES TO COMPLY W/ NCRC SEC R-311.3, 311.3, AND311.4
18. SLIDING DOORS - CALL OUT SIZE;
19. WINDOWS - CALL OUT SIZE. INDICATE IF FIXED OR OPERABLE. WINDOW SIZES MUST MEET MINIMUM REQUIREMENTS FOR LIGHT AND VENTILATION. WINDOWS IN SLEEPING AREAS MUST MEET NCRC SECTION R310.1.1
20. HALF WALLS/GUARDRAILS - SHOW HEIGHT;
21. DECKING - CALL OUT TYPE; IF WOOD, CALL OUT SIZE;
22. LINE OF FLOOR OR CEILING OPENINGS - CALL OUT STAIRS, ELEVATOR SHAFTS, LAUNDRY CHUTES OR DUMBWAITERS, ETC;
23. SKYLIGHTS - CALL OUT SIZE;
24. ATTIC ACCESS - CALL OUT SIZE;COMPLY W/ NCRC SECTION R-807
25. FIREPLACE - INSTALL PER MANUFACTURER'S SPECIFICATIONS. CHIMNEYS MUST EXTEND 3' - 0" VERTICALLY ABOVE ANY STRUCTURE WITHIN 10' - 0" MEASURED HORIZONTALLY;
26. RIDGES - CALL OUT SIZE AND SPECIES OF RIDGEBOARD;
27. HIPS - CALL OUT SIZE AND SPECIES OF HIP RAFTER;
28. VALLEYS - CALL OUT SIZE AND SPECIES OF VALLEY RAFTER;
29. ROOF FRAMING; - TRUSSES - SHOW DIRECTION OF LAYOUT; CALL OUT SPACING. SHOW AND LABEL HIP MASTERS, HIP JACKS, END JACKS, GIRDER TRUSSES, HANGERS, BEARING AREAS, ETC; - CONVENTIONAL ROOF FRAMING - SHOW DIRECTION OF ROOF RAFTER AND CEILING JOIST LAYOUT; CALL OUT SPACING; AND - SHOW AND LABEL RAFTER TIES, PURLINS, BLOCKING, SUPPORT JOINTS, BEARING POINTS AND/OR WALLS, ETC.
30. SMOKE DETECTORS;
31. CONCRETE FOUNDATION - 48" MAXIMUM UNBALANCED BACKFILL; IF HIGHER, SUBMIT ENGINEERINGCALCULATIONS AND DETAILS WITH STAMP FROM LICENSED PROFESSIONAL ARCHITECT OR ENGINEER;
32. CONCRETE FOUNDATION WITH CRIPPLE WALL - 4'0" MAXIMUM UNBALANCED BACKFILL RESTRAINED AT BASE BY CONCRETE FLOOR; IF HIGHER, SUBMIT ENGINEERING CALCULATIONS AND DETAILS FROM LICENSED PROFESSIONAL ARCHITECT OR ENGINEER;

WORKING DRAWINGS (CONTINUED)

33. SLOPE OF ROOF - SHOW RISE AND RUN;
34. FINISH ROOF MATERIAL - CALL OUT TYPE OF ROOFING; SPECIFY INTERLAYMENT AND/OR UNDERLAYMENT;
35. ROOF SHEATHING - CALL OUT SIZE; INDICATE IF SOLID OR SPACED;
36. ROOF MEMBERS - CALL OUT SIZE; INDICATE IF STICK FRAMED OR TRUSSED;
37. INSULATION BAFFLE - 1" MINIMUM CLEAR VENTED AIR SPACE ABOVE THE INSULATION;
38. EAVE BLOCKING/ATTIC VENTILATION;
39. GUTTER;
40. OVERHANG - DIMENSION;
41. CEILING INSULATION - CALL OUT R-VALUE;
42. GYPSUM WALL BOARD (GWB) - CALL OUT THICKNESS;
43. FLOOR - CALL OUT SYSTEM. INDICATE INSULATION AND ANY LEVEL CHANGES. EXAMPLE: ¾" T&G PLYWOOD DECKING OVER 2 X 10 FLOOR JOIST (F.J) @ 16" O.C. OVER 1/2" GWB;
44. WALL - CALL OUT SYSTEM; (EXAMPLE: EXTERIOR - 1 X 8 BEVEL CEDAR SIDING OVER BUILDING WRAP OVER 1/2" PLYWOOD SHEATHING OVER 2 X 6 STUDS @ 16" O.C. WITH R-13 BATT INSULATION ON 1/2" GWB. INTERIOR -2 X 4 STUDS @ 16" O.C. WITH 1/2" GWB EACH SIDE.)
45. STUDS - WALLS SUPPORTING TWO FLOORS, ROOF AND CEILING MINIMUM 3 X 4 OR 2 X 6 SPACED @16" O.C.;
46. FOR FOUNDATIONS SUPPORTING WOOD, EXTEND CONCRETE 6" ABOVE GRADE;
47. DAMPPROOFING AND WATERPROOFING OF FOUNDATION WALLS ENCLOSING A ROOM BELOW GRADE - REFER TO NCRC SECTION R406.1 AND SECTION R406.2.
48. FOUNDATION WALL - INDICATE TYPE OF CONSTRUCTION AND SIZE - REFER TO NCRC SECTION R404.
49. FLOOR TO FLOOR, FLOOR TO TOP PLATE - MINIMUM 7' 0" CEILING HEIGHT FOR NCRC APPLICATIONS, REFER TO NCRC SECTION R305.1.
50. GARAGE SEPARATION - REFER TO NCRC SECTION R309.2; GARAGE SHALL BE SEPERATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN ½" TYPE 'X' GWB APPLIED TO THE GARAGE SIDE.
51. PRESSURE TREATED SILL - CALL OUT SIZE;
52. ANCHOR BOLTS - CALL OUT SIZE AND SPACING MINIMUM EMBEDMENTREFER TO NCRC SECTION R-403.1.6.
53. REINFORCING BARS (REBAR) - CALL OUT SIZE AND SPACING;
54. DRAIN TILE - RECOMMENDED AND REQUIRED IN SOME AREAS;
55. GRADE - SHOW ON ELEVATIONS; AND
56. PATIOS, DECKS - CALL OUT MATERIALS. INDICATE DISTANCE OF FINISHED FLOOR FROM GRADE.

OTHER ITEMS TO CONSIDER:

* SHOW EXISTING STRUCTURAL FOUNDATIONS, FRAMING AND ROOFING ON REMODELS AND ADDITIONS;
* INDICATE OPENINGS SUCH AS WINDOWS AND DOORS; AND
* DISTINGUISH NEW FROM EXISTING; A DASHED LINE SHOULD INDICATE STRUCTURES OR ITEMS TO BE REMOVED.

THIS ILLUSTRATION IS AN EXAMPLE OF THE REQUIRED CONTENT AND FORMAT FOR PROJECT PLANS. THIS ILLUSTRATION IS CONSISTANT WITH THE NORTH CAROLINA BUILDING CODE, BUT IS NOT COMPLETE AS ADDITIONAL PROJECT SPECIFIC INFORMATION WOULD NEED TO BE PLACED IN THE BLANKS BEFORE IT WOULD ILLUSTRATE A CODE COMPLIENT PROJECT. BUILDING COMPNENTS MUST BE DESIGNED AND SIZED TO MEET REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE TO YOUR PROJECT. IF YOU HAVE DIFFICULTY DESIGNING YOUR PROJECT YOU MAY WANT TO CONSULT WITH A LICENCED GENERAL CONTRACTOR OR A DESIGN PROFESSIONAL.

MECKLENBURG COUNTY
Sample Address
Anywhere USA 12345
(704) 000-0000

PLEASE SEE SHEET T-3 (SPECIFICATIONS) FOR ALL INFORMATION THAT IS REQUIRED ON THIS SHEET.

SCOPE OF WORK
E: REAR ADDITION

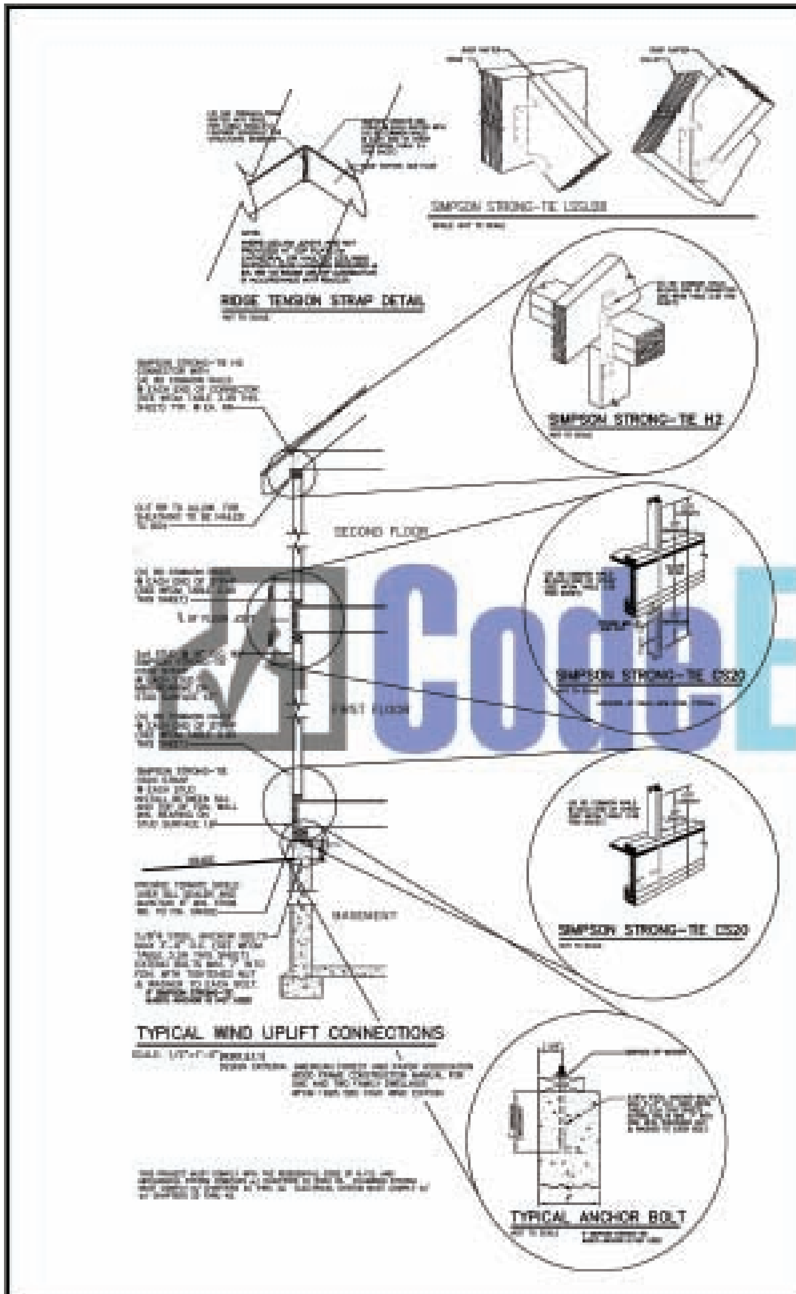
HOMEOWNER NAME

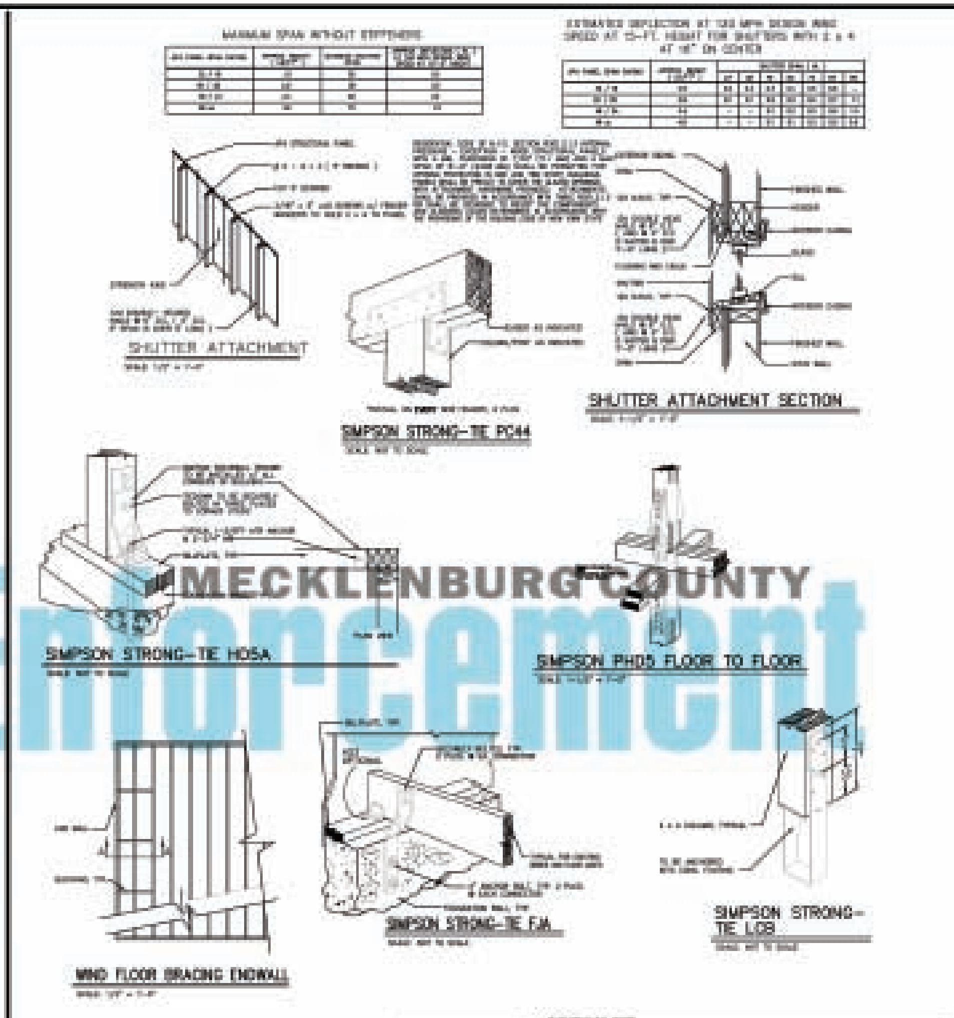
TOWN OF
MECKLENBURG COUNT

GENERAL
CODE NOTES

T- 3

BUILDING DEPT





THIS ILLUSTRATION IS AN EXAMPLE OF THE REQUIRED CONTENT AND FORMAT FOR PROJECT PLANS. THIS ILLUSTRATION IS CONSISTANT WITH THE NORTH CAROLINA BUILDING CODE, BUT IS NOT COMPLETE. ADDITIONAL PROJECT SPECIFIC INFORMATION WOULD NEED TO BE PLACED IN THE BLANKS BEFORE IT WOULD ILLUSTRATE A CODE COMPLIENT PROJECT. BUILDING COMPONENTS MUST BE DESIGNED TO MEET THE REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE TO YOUR PROJECT. IF YOU HAVE DIFFICULTY DESIGNING YOUR PROJECT YOU MAY WANT TO CONSULT WITH A LICENCED GENERAL CONTRACTOR OR A DESIGN PROFESSIONAL.

MECKLENBURG COUNTY
Sample Address
Anywhere USA 12345

PLEASE SEE SHEET T-3 (SPECIFICATIONS) FOR ALL INFORMATION THAT IS REQUIRED ON THIS SHEET.

PROJECT:
SCOPE OF WORK:
(E) REAR ADDITION
HOMEOWNER NAME
TOWN OF ________
MECKLENBURG COUNTY

STRUCTURAL DETAILS

T- 4

BUILDING DEPT